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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-08** **Date: 08-03-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 1st Cross in Ravindra nagara in ward no.13 Shettyhalli sub division.
Agency	:	Sri. Pillappa Girija Shankar No. 881/E West of Chord road, 2nd Stage, Rajajinagara, Bengaluru-560086
Customer's Reference	:	EE/DD/WO/244/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-03-2018
Sample ID No	:	2018-03-05-08 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	314	314	2.1	97.9	90-100
3	20 mm	7547	7861	52.4	47.6	30-70
4	10 mm	5155	13016	86.8	13.2	10-35
5	4.75 mm	1784	14800	98.7	1.3	0-5
6	Pan	200	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-08** **Date: 07-03-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 1st Cross in Ravindra nagara in ward no.13 Shettyhalli sub division.
Agency	:	Sri. Pillappa Girija Shankar No. 881/E West of Chord road, 2nd Stage, Rajajinagara, Bengaluru-560086
Customer Reference	:	EE/DD/WO/244/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-2018
Sample ID No	:	2018-03-05-08 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	279	279	5.6	94.4	90-100
3	10 mm	2918	3197	63.9	36.1	25-55
4	4.75 mm	1586	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Date: 07-03-2018

Lab ID	:	**CP-2018-03-05-08**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 1st Cross in Ravindra nagara in ward no.13 Shettyhalli sub division.
Agency	:	Sri. Pillappa Girija Shankar No. 881/E West of Chord road, 2nd Stage, Rajajinagara, Bengaluru-560086
Customer's Reference	:	EE/DD/WO/244/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-2018
Sample ID No	:	2018-03-05-08 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-03-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	188	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	229	432	43.2	56.8	30-70	55-90	75-100	90-100
5	600 micron	148	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	196	776	77.6	22.4	5-20	8-30	12-40	15-50
7	150 micron	159	935	93.5	6.5	0-10	0-10	0-10	0-15
8	Pan	65	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/03/2018

Lab ID	:	**CP-2018-03-15-08**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 1st Cross in Ravindra nagara in ward no.13 Shettyhalli sub division.
Agency	:	Sri. Pillappa Girija Shankar No. 881/E West of Chord road, 2nd Stage, Rajajinagara, Bengaluru-560086
Customer's Reference	:	EE/DD/WO/244/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-2018
Sample ID No	:	2018-03-15-08 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	12/03/2018	19/03/2018	150.44 X 150.24 X 150.75	22602	8.127	393.3	17.4	
2	PCC	M20	12/03/2018	19/03/2018	150.23 X 150.75 X 149.63	22647	8.166	409.9	18.1	17.7
3	PCC	M20	12/03/2018	19/03/2018	150.72 X 149.63 X 149.85	22552	8.204	396.9	17.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-15-08** **Date: 19/03/2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 1st Cross in Ravindra nagara in ward no.13 Shettyhalli sub division.
Agency	:	Sri. Pillappa Girija Shankar No. 881/E West of Chord road, 2nd Stage, Rajajinagara, Bengaluru-560086
Customer's Reference	:	EE/DD/WO/244/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-2018
Sample ID No	:	2018-03-15-08 /03
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	12/03/2018	19/03/2018	151.07 X 150.59 X 150.47	22750	8.178	423.1	18.6	18.6
2	PCC	M20	12/03/2018	19/03/2018	150.30 X 150.69 X 151.28	22648	8.168	428.0	18.9	
3	PCC	M20	12/03/2018	19/03/2018	150.74 X 150.89 X 151.75	22745	8.163	418.5	18.4	

Note:
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-05-08** **Date: 08-03-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 1st Cross in Ravindra nagara in ward no.13 Shettyhalli sub division.
Agency	:	Sri. Pillappa Girija Shankar No. 881/E West of Chord road, 2nd Stage, Rajajinagara, Bengaluru-560086
Customer's Reference	:	EE/DD/WO/244/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-2018
Sample ID No	:	2018-03-05-08 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-03-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.77	_
2	Finess by Air permeablity method (m^2/kg,Min)	293.7	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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